

ABSTRACT

Dirt or earthen material may be made more vacuumable by first loosening dirt with a force of air or liquid. A water nozzle spray on dirt both loosens and dilutes the dirt into mud, which may then be easily vacuumed. The two-step process may be incorporated into a one-step process by attaching the water spray nozzle onto an indentation in the circumference of the vacuum conduit. Making an indentation in the circumference of the vacuum conduit reduces the outside protrusion of the nozzle, focuses the nozzle spray toward the entrance of the vacuum hose, thus efficiently loosening dirt directly at the entrance of the vacuum hose suction end. The inward protrusion of the indentation reduces the size of debris, which may enter the inlet of the vacuum conduit. Reducing the size of debris to less than the inside size of the vacuum hose reduces the occurrence of debris clogging in the vacuum hose. The suction end of a vacuum conduit may have the inlet edge rolled inward to reduce the maximum size of debris which may enter the vacuum hose.